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of:

- 1. A method to determine a time domain equalized signal-to-noise ratio of a mass storage device, the method comprising the steps of:
 - (a) retrying verification of read data at a phase level; and
 - (b) retrying a time domain equalized signal-to-noise ratio at a global level.
- 2. The method of claim 1, wherein the retrying step (a) further comprises the steps of:
- (a)(1) verifying all phases of the read data;
 - (a)(2) determining a qualification of all phases of the read data; and
 - (a)(3) determining exhaustion of phase level retry.
 - 3. The method of claim 1, wherein the retrying step (b) further comprises the steps
 - (b)(1) comparing the time domain equalized signal-to-noise ratio to a predetermined threshold; and
 - (b)(2) determining the exhaustion of global level retry.
- 20 4. The method of claim 1, wherein the method further comprises the steps of:
 - (c) filling a write buffer of the mass storage device with data, the data having a pseudo-random pattern;
 - (d) setting a read channel of the mass storage device to output sampled analog-todigital converted data to a NRZ bus of the mass storage device;
 - (e) writing the write buffer to a media of the mass storage device; and
 - (f) reading all phases of the data stored on the media, yielding read data.
 - 5. The method of claim 4, wherein the filling step (c) is performed after the setting step (d).

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- 6. The method of claim 4, wherein the filling step (c), the setting step (d), and writing step (e) and the reading step (f) are performed after the retrying step (a).
- The method of claim 4, wherein the method further comprises the step of:(g) calculating a time domain equalized signal-to-noise ratio from the read data.
 - 8. The method of claim 7, wherein the calculating step (g) is performed after the retrying step (a), and before the retrying step (b).
 - 9. The method of claim 7, wherein the method further comprises the step of:(h) determining that the mass storage device passed or failed.
 - 10. The method of claim 1, wherein the mass storage device further comprises a disc drive.
 - 11. An disc drive to perform a manufacturing quality assurance pass/fail test on an electronic device, the disc drive comprising:
 - a base;
 - a disc rotatably attached to the base;
 - an actuator for carrying a transducer head in a transducing relation with respect to the disc; and
 - a disc drive controller, communicatively coupled to the actuator, which further includes:
 - a determiner of a time domain equalized signal-to-noise ratio of the disc, the disc drive controller operably coupled to the disc.
 - 12. The disc drive of claim 11, wherein the determiner further comprises a determiner implemented in firmware.

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- 13. The disc drive of claim 11, wherein the determiner of a time domain equalized signal-to-noise ratio further comprises:
 - a phase level retrier; and

determiner.

- a global level retrier, operably coupled to the phase level retrier.
- 14. The disc drive of claim 13, wherein the phase level retrier further comprises: a read data phase verifier; a qualification determiner, operably coupled to the global level retrier; and a phase level completion determiner, operably coupled to the qualification
- 15. The disc drive of claim 14, wherein the global level retrier further comprises: an ESNR threshold determiner; and a global level completion determiner, operably coupled to the ESNR threshold determiner.
- 16. The disc drive of claim 11, wherein the disc drive further comprises a magnetic disc drive.
- 17. The disc drive of claim 11, wherein the disc drive further comprises an optical disc drive.
- 18. A method to test a mass storage device, the method comprising the steps of:
 - (a) downloading ESNR determining firmware to a memory of the mass storage device;
 - (b) determining an ESNR value of the recording medium of the mass storage device, by performing the ESNR determining firmware; and
 - (c) determining rejection or acceptance of the recording medium of the mass storage device, from the ESNR value.

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- 19. The method of claim 18, wherein the determining step (b) further comprises:(b)(1) performing the ESNR determining firmware, yielding an ESNR value.
- 5 20. The method of claim 18, wherein the mass storage device further comprises a disc drive.
 - 21. An information handling system comprising:

a base;

a disc rotatably attached to the base;

an actuator assembly movably attached to the base the actuator assembly further comprising a voice coil attached to the actuator assembly;

a processor operably coupled to the actuator; and

a means operative on the processor to determine phase level retry and global level retry of an equalized signal-to-noise-ratio of the disc.

22. The information handling system of claim 21, wherein the means further comprises:

a phase level retrier; and

a global level retrier, operably coupled to the phase level retrier.

23. The information handling system of claim 21, wherein the phase level retrier further comprises:

a read data phase verifier;

a qualification determiner, operably coupled to the read data phase verifier; and a phase level completion determiner, operably coupled to the qualification determiner.

24. The information handling system of claim 21, wherein the global level retrier further comprises:

an ESNR threshold determiner; and

a global level completion determiner, operably coupled to the ESNR threshold determiner.